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DSC-HX20V/B

Get extremely close with the ultra-stabilized 20X optical/40X Clear Image zoom on the Sony® DSC-HX20V, and capture detailed pictures and Full HD 1080/60p videos with its 18.2MP sensor. Picture Effects, Photo Creativity, 3D Still Image, and 3D Sweep Panorama modes expand creative options, and a built-in GPS lets you share your journeys.

18.2MP Exmor® R CMOS sensor

The 18.2MP Exmor® R CMOS sensor captures ultra-high definition images that take full advantage of the camera's sharp Sony® G lens. An advanced BIONZ processor rapidly analyzes the Extra-High Sensitivity data from the sensor, and activates By-Pixel Super Resolution technologies to reduce noise levels up to 6X compared to previous CMOS sensors, resulting in stunning low light images with incredible details.

High speed AF

To improve focusing speed and sensitivity, the Exmor R® CMOS sensor uses its rapid throughput to deliver high-quality image signals to the camera's BIONZ® processor. The result is fast, DSLR-like focusing speeds, even in low light.

Optical zoom plus Clear image zoom

Most digital zooms use electronic cropping to get closer to the subject, resulting in unsharp images. With Clear Image Zoom the powerful processor compares patterns found in adjacent pixels and creates new pixels to match selected patterns, resulting in more realistic, higher-quality images. Clear Image Zoom doubles optical zoom for closer photos.

Full HD 1080/60p

Record crystal clear movies at the highest resolution available with capabilities for 60i in 1080 AVCHD™ video.[1] This provides stunning, fast motion video with less distortion for playback on your HD TV.[2] With dual record of stills and movies, you can shoot both at the same time.

Optical SteadyShot™ image stabilization with 3-way Active Mode

Optical SteadyShot™ image stabilization reduces shake and blur by countering camera movements in both horizontal and vertical directions. Active 3-Way stabilization adds digital rolling control that counters clockwise and anti-clockwise rotation, resulting in more stable videos even at long focal lengths.

GPS and Compass

GPS and compass record location data and camera direction as you shoot movies and photos. GPS Log lets users track a photographic journey and later view the path and images on a map. Map View in "PlayMemories Home" software, allows users to view images on a map showing where they were taken. The logged path and images can also be displayed on Google Earth.

Capture the decisive moment with up to 10fps

Capture full 18.2 megapixel resolution images at up to 10 frames per second, helping to ensure that the decisive moment is captured such as the soccer ball flying into the goal. In addition, a mechanical shutter helps reduce distortion when continuously shooting moving subjects.

3D Still Image and 3D Sweep Panorama™ mode

Produce awe-inspiring images with 3D Still Image and 3D Sweep Panorama™ capabilities.[3] Photos will take on a new dimension of creative capabilities for viewing the world in a whole new way.

Picture Effect

Picture Effect adds a new level of expression to photos, making ordinary landscapes and portraits come to life by heightening mood and emphasizing certain attributes. Select camera models have up to nine different effects.

Photo Creativity

Photo Creativity allows you to fine-tune your exposure settings, such as brightness, color, and vividness, and quickly choose the right enhancement for your subject. Now you can view Picture Effects and Photo Creativity effects in real time on the camera's monitor or in the viewfinder before shooting.

Background Defocus

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DSLR photographs are often beautiful because they blur the background, putting the emphasis on the subject. Now our point-and-shoot cameras can deliver this signature DSLR benefit. The system takes two shots, identifies the background and applies a defocused background keeping the subject crisp and clear

Superior Auto mode

Specifications

Camera	
Camera Type	High Zoom
Imaging Sensor	
Imaging Sensor	1/2.3" Exmor® R CMOS Sensor
Processor	BIONZ®
Pixel Gross	18.9MP
Effective Picture Resolution	18.2MP
Color Filter System	RGB primary color filters
Recording	
Media Type	optional "Memory Stick Duo" (No movie recording), optional "Memory Stick PRO Duo" (Mark 2 only for movie recording), optional "Memory Stick PRO-HG Duo", optional SD Memory Card (Class 4 or higher), optional SDHC Memory Card (Class 4 or higher), optional SDXC Memory Card (Class 4 or higher)
Still Image Max Effective Resolution	Approx. 18.2 Megapixels
Still Image Size 16:9	13M(4,896×2,752) / 2M(1,920 x 1,080)
Still Image Size 4:3	18M(4,896×3,672) / 10M(3,648 x 2,736) / 5M(2,592 x 1,944) / VGA
Panorama Still Image Size	Sweep
Sweep Multi Angle Image Size	2M (1,920 x 1,080)
Video Mode	AVCHD 60i:28M
Photo Capture from Movie	Yes
Dual Record	Yes
Audio Format	AC3 (Stereo)
Microphone/ Speaker	Stereo/mono
Wind Noise Reduction	Off/on
Optics/Lens	
Lens Type	Sony G
Aperture	f 3.2-5.8
Optical Zoom	20x
Focal Length (35mm equivalent)	Still 16:9: 27.5-550mm / Still 4:3: 25-500mm / Movie 16:9:
Lens Construction	12 elements in 9 groups
Minimum Focus Distance	
Aspheric Elements	4
Clear Image Zoom	40x
Steady Shot Mode:Active	Yes
LCD Display	
LCD Type	3.0" Xtra Fine LCD™ TruBlack™ display (921K dots)
Brightness Control	5(Bright) / 4 / 3(Normal) / 2 / 1(Dark)
Histogram	Yes
Grid Display	Yes (Off / On)
Focus Control	
AF Modes	Multi Point AF / Center Weighted AF / Flexible Spot AF / Manual / Semi Manual / Tracking Focus / Face Tracking Focus
AF Illuminator	Auto / Off
Exposure System	
Metering Modes	Multi Pattern / Center Weighted / Spot
Exposure Compensation	Plus / Minus 2.0EV, 1 / 3EV step
Scene Mode(s)	High Sensitivity / Soft snap / Soft Skin / Landscape / Night Portrait / Night Scene / Handheld Twilight / Gourmet / Beach / Snow / Fireworks / Pet mode / Anti-motion blur / Backlight Correction HDR / Advanced sports shooting
D-Range Optimizer	Standard
ISO	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800
White Balance Mode	Auto (Intelligent) / Daylight / Cloudy / Fluorescent 1 (White Fluorescent Lighting) / Fluorescent 2 (Natural White Fluorescent Lighting) / Fluorescent 3 (Day White Fluorescent Lighting) / Incandescent / Flash / One Push, One Push Set / White Balance Shift
Drive System	
Self-timer	Off / 10sec. / 2sec. / portrait1 / portrait2
Shutter Speeds	iAuto(4" - 1/1600) / Program Auto(1" - 1/1600) / Manual(30" - 1/1600)
Burst Mode	Approx 10 fps at 18.2MP (Maximum 10 shots)
Flash	
Flash Modes	Auto / Flash On / Slow Synchro / Flash Off
Flash Coverage	ISO Auto: Approx.0.4m to 7.1m(1 feet 3 3/4 inches to 23 feet 3 5/8 inches)(W) / Approx.1.7m to 3.9 m(5feet 7 inches to 12 feet 9 5/8 inches)(T), ISO3200: up to Approx.10.0 m(32 feet 9 3/4 inches)(W) / Approx.5.5 m(18 feet 5/8 inches)(T)
Convenience Features	
Red-Eye Reduction	Auto / On / Off
Erase/Protect	Erase: Single / Select / Date / Folder / AVCHD, Protect: Single / Select / Date / Folder / AVCHD
Red-Eye Reduction	Auto / On / Off
Erase/Protect	Erase: Single / Select / Date / Folder / AVCHD, Protect: Single / Select / Date / Folder / AVCHD
Advanced Features	
Anti Motion Blur	Yes
Sweep Panorama	Intelligent Sweep Panorama / 3D Sweep Panorama
Face Detection	8 Faces (Auto / Off / Child Priority / Adult Priority / Key Selected Face Memory)
Smile Shutter™ technology	Yes
Image Stabilization	Optical SteadyShot™ with 3-way Active Mode Image Stabilization
In-Camera Editing	Trimming / Red Eye Correction / Unsharp Masking
Intelligent Auto	Yes
Shooting Tips	Yes
Background Defocus	Yes
Tracking Focus	Off / Auto
Blink Detection	Yes
Photo Creativity	Yes
Interface	
Memory Card Slot	MS Duo and SD/ SDHC/SDXC Compatible
HD Output	Micro HDMI
USB Port(s)	Micro USB, Hi-Speed USB(USB2.0)
TransferJet	Send: Yes, Receive: Yes
Dimensions (Approx.)	
Dimensions (Approx.)	4 1/4" x 2 1/2" x 1 3/8" (106.6mm x 61.9mm x 34.6mm)
Weights and Measurements	
Weight (Approx.)	9.0oz (254g)
Weight(Approx) (Main unit only)	2.7oz (221g)
Power	
Battery Type	LITHIUM ION NP-BG1 3.6V
Battery Capacity	
Power Consumption (in Operation)	Approx. 1.1W
Power Requirements	AC 100V to 240V, 50/60 Hz, 70mA

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1. Records in 29 minute segments
2. Requires HDTV and HDMI cable sold separately
3. Requires 3D HDTV, HDMI cable (at least 10.2 Gbps) and active 3D glasses sold separately.
4. Combined with electronic stabilization

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Updated: March 1, 2012